

IN THE SPECIFICATION

Please replace the paragraph beginning at page 1, line 15 with the following paragraph:

Monolithic integration of III-V group material compound semiconductor optical devices has been established as a fundamental technology for high-performance optical applications to fabrication of optical devices. This integration of technology makes possible the fabrication of multi-functional, high-performance devices, which was impossible with conventional technology that could go beyond the miniaturization or integration of devices. The integration of the ~~III-IV~~ III-V group devices is essential to the fabrication and operation of opto-electronic integrated circuits (OEICs), electro-absorption modulated laser (EML) optical amplifiers, and optical mode converters. Selective area growth (SAG) using MOCVD is generally used for the integration technology.